

present invention will become more apparent from the following description of the preferred embodiment taken in conjunction with the accompanying drawings.

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BRIEF DESCRIPTION OF THE DRAWINGS

[0029] FIG. 1 is a diagram illustrating the entire configuration of an input setting system according to an embodiment of the present invention;

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[0030] FIG. 2 is a block diagram illustrating the configuration of a wireless mouse shown in FIG. 1;

[0031] FIG. 3 illustrates the configuration and a reading operation of an optical reading unit 209 provided within the wireless mouse;

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[0032] FIG. 4 illustrates state transitions when establishing a piconet of Bluetooth communication between the wireless mouse and a peripheral device;

[0033] FIGS. 5A and 5B are flowcharts illustrating procedures for setting the wireless mouse of the embodiment as an input apparatus to peripheral devices;

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[0034] FIGS. 6A and 6B are diagrams illustrating examples of device information relating to a multimedia-phone and device information relating to the wireless mouse, respectively, according to the embodiment;

[0035] FIG. 7 is a diagram illustrating a list of peripheral devices displayed on a display unit of the wireless mouse of the embodiment;

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[0036] FIG. 8 is a diagram illustrating a conventional system including a wireless mouse;

[0037] FIG. 9 illustrates the format of data transmitted from the

conventional wireless mouse; and

[0038] FIG. 10 illustrates flowcharts indicating a procedure for setting the wireless mouse of the embodiment as an input apparatus for a peripheral device in a sniff state.

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DESCRIPTION OF THE PREFERRED EMBODIMENT

[0039] A preferred embodiment of the present invention will now be described with reference to the drawings.

10 [0040] Nowadays, Network environments are being diffused not only in offices but also in homes.

[0041] Various types of connection are present, such as the ADSL (asymmetric digital subscriber line) using a telephone network, connection utilizing cables, connection utilizing optical fibers, and the like. In any type of
15 connection, continuous connection is becoming adopted. In such an environment, it can be considered that information terminals different from terminals provided in offices tend to be provided in homes.

[0042] FIG. 1 is a diagram illustrating the entire configuration of an input setting system including an information terminal which is considered
20 to be provided in a home.

[0043] In FIG. 1, reference numeral 101 represents an information terminal. In this embodiment, a case of using a multimedia-phone as the information terminal 101 will be described. The multimedia-phone 101 realizes the functions of a videophone, an IP (Internet protocol) telephone, a
25 Web browser, an electronic mail, a still-image album, a music album, a moving-image album and the like without using a personal computer. The

multimedia phone 101 realizes the filing function of storing still images, music, and moving images as a still-image album, a music album, and a moving-image album, respectively, input/output of images and sounds, and digital processing of digital sources.

5 [0044] A radio communication unit 102, a remote controller 103 for operating the multimedia-phone 101, a monitor (a display device, a television or the like) 104, serving as image output means, and a digital camera 105, serving as image input means, are provided as interfaces for realizing the above-described functions by the multimedia-phone 101. In this embodiment,
10 the radio communication unit 102 is assumed to perform radio communication according to Bluetooth communication.

[0045] An interface to be connected to an access point using a radio LAN (local area network), and an interface comprising an ADSL or cable modem provided in the multimedia-phone 101 and having the function of being
15 directly connected to an access point are provided as interfaces between the multimedia-phone 101 and an external network.

[0046] An IP-Web-phone 110 has an IP-telephone function, a Web-browsing function, and an electronic-mail function provided separately from the multimedia-phone 101. The IP-Web-phone 110 can be easily carried
20 by the user and can be operated under the user's hand. Since the storage capacity of the IP-Web-phone is limited, the functions of the multimedia-phone 101 are utilized for storing a mail having at least a constant capacity and for filing. The IP-Web-phone 110 includes a radio communication unit 111 having a Bluetooth module, a telephone interface
25 112, a display unit 113, and a keyboard 114 for performing key input.

[0047] A wireless mouse 120 serves as an input apparatus for the